



MEMORANDUM

DATE: October 23, 1997

TO: Gary Konwinski, Environmental Manager, B116, X2729

FROM: Bob Cathel, RCRA Custodian 750 Pad/B788, T893A, X6880 *Bc*

SUBJECT: WASTE CHARACTERIZATION STATUS AT THE SOLAR PONDS BLC-004-97

The waste characterization of the equipment/debris around the solar ponds is approximately 50% complete. The completed items are discussed below:

1. Steve Dewitt and I have walked-down the areas around the solar ponds and have discussed his process knowledge of the equipment/debris in these areas.
2. I have started a spreadsheet to capture the above process knowledge as well as other pertinent information.
3. I was able to locate 11 P/WRE's regarding some materials at the North end of Solar Pond C from June, 1996.
4. Some of the equipment between Solar Ponds A & B have been surveyed by Radiological Operations (RO) prior to April, 1996. Scott Newsom is currently searching for these surveys so that I can match them with the appropriate equipment.

Plans to complete the waste characterization include:

1. Tagging the equipment/debris. (Week of 10/27/97)
2. Getting photographs taken of the tagged equipment/debris. (Week of 10/27/97)
3. Matching the RO surveys to the appropriate equipment. (As soon as available)
4. Finishing my spreadsheet. (At completion of above tasks)
5. Conducting a review of the above documentation with Steve Dewitt and Rich Garcia. (At completion of above tasks)
6. Finalizing the waste characterization data and distributing. (At completion of above tasks)

If you have any questions or comments please call me.

cc:

A. M. Dennis
S. W. Dewitt
P. M. Sauer

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Scott Newsom
Name/Org *Enrichment Division* Date *10/6/97*
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ADMIN RECCRD

IA-A-000448

1/4

Full Activity Report

Fiscal Year Filter '1998'

Project Filter 'FY98 Budget Rev B'

Post-It® Fax Note 7671

Date	9-29-97	# of pages	3
To	GARY KOWALSKI		
From	ANGIE DENNIS		
Co/Dept.	SEC		
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PBS

015-Miscellaneous Production Zone Cluster Closure

New WAD

77-207/964 Cluster Project

WBS Code 1.1.06.01.01

AJKA011015 Removal of Debris at Solar Pond & Clarifier - s/c

Project FY98 Budget Rev B

New WAD 77-207/964 Cluster Project

Type Standard

Old WAD 062

Duration (days) 264

Responsible Org Unassigned

Start Date 10/1/97 FY 1998

WBS Code 1.1.06.01.01

Finish Date 9/30/98

PBS 015-Miscellaneous Production Zone Cluster Closur

M*PM Summary Activity (Charge Number) KA014000

Activity Scope

The scope of these activities is to begin the removal process for the excess equipment, debris, and clarifier from around the solar ponds by characterizing, staging, packaging, and evaluating disposition options and technologies. Management of the equipment will be integrated into the sitewide Management Plan for Material Contained in Idle Equipment, and management of the clarifier tank will be integrated into the 1997 Tank Management Plan. Debris will be handled according to exemptions or categorization under the RCRA debris or contained in rules, as applicable, based upon characterization results. A scope of work will be developed and a Request For Proposal(s) will be issued for drainage of the clarifier tank and large equipment removal and disposition to PU&D yard, landfill, or offsite for waste classified as low level, low level mixed, or free released. At a later date, after appropriate disposition has been determined, the smaller equipment and debris will be packaged or relocated to the decontamination pad for further processing and allowable under this scope. This activity includes:

1. Debris characterization, staging, and limited packaging of small items
2. Excess equipment characterization and Request For Proposal development for removal, decontamination, and disposition
3. Clarifier characterization, technology evaluation and request for proposal development for treatment, removal, and disposition

Strategy

Due to limitations of RMRS staffing levels and the availability of labor, this activity is targeted for outsourcing. Such subcontracted services, however, will be under the direction of RMRS Waste Storage/Facility Operations which are funded by separate baseline activities. The clarifier draining activity is assumed to use existing Guzzler truck and system fluid transfer systems.

Regulatory Drivers	<input checked="" type="checkbox"/> Compliance Agreement	<input checked="" type="checkbox"/> State Regulation	<input type="checkbox"/> Agreement In Principle
	<input type="checkbox"/> Court Order	<input type="checkbox"/> DOE ES&H Order	<input checked="" type="checkbox"/> Proposed Agreement
	<input checked="" type="checkbox"/> Federal Regulation	<input type="checkbox"/> Document Management	<input type="checkbox"/> Other

Regulatory Narrative

The objective of the operation is to remove equipment and debris abandoned at the solar ponds as a result of a Stop Work Notice. The resulting situation is that equipment that once supported pond draining operations is contaminated both radiologically as well as with hazardous wastes. The abandoned equipment has been trapped and maintained within the scope of the baseline funding. The trapped equipment however, remains in a state exposed to the elements. Interim containment is provided. Safety concerns and Radiological Deficiency Reports have been issued and dispositioned by adding trapping evolution's. From the perspective of the Rocky Flats Clean-up Agreement (RFCA) the solar pond condition is neither in an operational status nor in a state ready for assumption by Environmental Restoration programs.

Hazards	<input type="checkbox"/> Flammable/Explosion	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Contam. Environmental Media
	<input checked="" type="checkbox"/> Radiological	<input checked="" type="checkbox"/> Hazardous Chemical	<input type="checkbox"/> Nuclear Criticality

Hazard Narrative

The abandoned equipment is contaminated with trace amounts of non-natural radioactive and hazardous chemical constituents. The scope of the activity will introduce industrial hazards in the form of heavy lifting equipment.

Safety Uncertainties

Authorization Basis Status

C

Given the relatively low levels of contamination and the existing need to expose workers during recurring trapping evolution's if no action is taken, the scope of this activity does significant increases in safety uncertainty from an exposure standpoint. The activity does introduce added uncertainty with respect to industrial hazard which would be prevail during heavy lifting.

Safety Interfaces

Through the strategy to sub-contract the entire activity, safety interfaces will be established through the bidding and contract awarding process.

Cost/Risk Narrative

Lower Bound \$250,000.00

Upper Bound \$350,000.00

Cost risks are due to the preliminary nature of the estimate and to the potential for fines which could be imposed by RCRA regulators due to inaction or failure to promptly comply with the requirements introduced by the Tank Management Plan. Schedule risks are minimal as the activity is considered to be easily accomplished within a 4 to 5 month time frame, following the award of a contract. The upper bound cost risk is set at 10% of the estimated cost of the activity.

Streamline TextStreamlining Cost Savings

No significant reduction in life-cycle costs is anticipated.

Created By mlcheld

Last Changed By LEE

Last Changed On 9/24/97 5:17:29 PM

AJKA011016 Debris Characterization, Staging, & Packaging☒ Funded Quantity 1 Units eachLine Item Scope

This activity covers the characterization, staging, and limited packaging of small items.

Line Item BOE

This line item is based on excerpts from an unsolicited proposal by Manufacturing Sciences Corporation dated August 5, 1997.

Dept/Cost Center	EOC	Skill	Curve	Resources
R214S SOLID MATERIAL MANAGEMENT	ASH	OTHER LABOR/GENERAL SER	Linear	23,750.00 Dollars
23750 dollars for subcontracted characterization, staging, and limited packaging				
H214S SOLID MATERIAL MANAGEMENT	ASH	ENVIRONMENTAL ENGINEERS	Linear	42,000.00 Dollars
70 dollars/hr				
600 hours for SEG senior engineer to perform and oversee work				
R214S SOLID MATERIAL MANAGEMENT	ASH	OTHER MANAGERS	Linear	12,740.00 Dollars
35 hrs/week for 207 cluster building manager				
0.1 10% of building managers time to assist in characterization, etc.				
70 dollars/hr				
52 weeks/yr				

Summary for Line Item 'Debris Characterization, Staging, & Packaging' (3 detail records)

	Line Item Unit	Hours	Hourly Cost	NonHourly Cost	Total Cost
<u>Prime:</u>	Line Item Unit	0.0	\$0.00	\$78,490.00	\$78,490.00
	Line Item Qty	0.0	\$0.00	\$78,490.00	\$78,490.00
<u>Burdened:</u>	Line Item Unit	0.0	\$0.00	\$95,205.23	\$95,205.23
	Line Item Qty	0.0	\$0.00	\$95,205.23	\$95,205.23

AJKA011017 Excess Equipment Characterization☒ Funded Quantity 1 Units eachLine Item Scope

Excess equipment characterization and request for proposal development for removal, decontamination, and disposition

Line Item BOE

Dept/Cost Center	EOC	Skill	Curve	Resources
R214S SOLID MATERIAL MANAGEMENT	ASH	OTHER ENGINEERS	Linear	42,000.00 Dollars
600 hours				
70 per hour				

Summary for Line Item 'Excess Equipment Characterization' (1 detail record)

	Line Item Unit	Hours	Hourly Cost	NonHourly Cost	Total Cost
<u>Prime:</u>	Line Item Unit	0.0	\$0.00	\$42,000.00	\$42,000.00
	Line Item Qty	0.0	\$0.00	\$42,000.00	\$42,000.00
<u>Burdened:</u>	Line Item Unit	0.0	\$0.00	\$50,944.32	\$50,944.32
	Line Item Qty	0.0	\$0.00	\$50,944.32	\$50,944.32

AJKA011018 Clarifier Characterization/Technology Eval☒ Funded Quantity 1 Units eachLine Item Scope

Clarifier characterization, technology evaluation and request for proposal development for treatment, removal, and disposition

Line Item BOE

Dept/Cost Center	EOC	Skill	Curve	Resources
R214S SOLID MATERIAL MANAGEMENT	ASH	OTHER LABOR/GENERAL SER	Linear	50,000.00 Dollars
50000 dollars for subcontractor to perform scope				
R214S SOLID MATERIAL MANAGEMENT	ASH	ENVIRONMENTAL ENGINEERS	Linear	48,000.00 Dollars
700 hours for SEG senior engineer to perform and oversee work				
70 dollars/hr				

Summary for Line Item 'Clarifier Characterization/Technology Eval' (2 detail records)

	Line Item Unit	Hours	Hourly Cost	NonHourly Cost	Total Cost
<u>Prime:</u>	Line Item Unit	0.0	\$0.00	\$99,000.00	\$99,000.00
	Line Item Qty	0.0	\$0.00	\$99,000.00	\$99,000.00
<u>Burdened:</u>	Line Item Unit	0.0	\$0.00	\$120,083.04	\$120,083.04
	Line Item Qty	0.0	\$0.00	\$120,083.04	\$120,083.04

Activity 'AJKA011015' Totals

		Hours	Hourly Cost	NonHourly Cost	Total Cost
Prime:	Funded	0.0	\$0.00	\$219,490.00	\$219,490.00
	Unfunded	0.0	\$0.00	\$0.00	\$0.00
	Combined	0.0	\$0.00	\$219,490.00	\$219,490.00
Burdened:	Funded	0.0	\$0.00	\$266,232.59	\$266,232.59
	Unfunded	0.0	\$0.00	\$0.00	\$0.00
	Combined	0.0	\$0.00	\$266,232.59	\$266,232.59

AJKA110000 207 Cluster Fac Operations Mgmt FY98

Project	FY98 Budget Rev B	New WAD	77-207/964 Cluster Project
Type	Standard	Old WAD	062
Duration (days)	10	Responsible Org	ERWM & I
Start Date	FY 1998	WBS Code	1.1.06.01.01
Finish Date		PBS	015-Miscellaneous Production Zone Cluster Closur
Activity Scope	M*PM Summary Activity (Charge Number) KA110000		

The 207 Cluster includes the Solar Evaporation Ponds (207A, B, and C), Buildings 788 and 788A, associated tanks, and equipment related solely to the operation and maintenance of these facilities.

The scope of this activity includes routine tasks and functions to maintain the 207 Cluster facilities in a safe and operable condition in compliance with their authorization basis, Conduct of Operations, and applicable orders and instructions, and capable of supporting other Site activities and programs. The scope includes routine facility management, updating of the authorization basis and the Health and Safety plan, facility-related corrective and preventive maintenance tasks, facility-related surveillances, occurrence reporting, freeze protection, snow removal, maintaining and exercising emergency response plans and a hazard communications program, providing procedural support of JCUSC concerns, training for one facility manager, and a prorated share of facility support functions such as Plan of the Day (POD), annual work plan development and administration, and property management.

The scope of this activity does not include efforts in support of waste and other projects and programs, container movements, regulatory compliance inspections, maintenance of Personal Protective Equipment (PPE), project-related supplies, coordinating and executing the training of building staff, salaried and hourly labor who support projects, maintenance of project-related test and operating equipment, DOT filter testing, funding for grievance settlements, and project support functions such as WEMS, management assessments of efforts in support of projects, corrective action tracking, and shift/standing order administration.

Strategy**Strategy:**

The strategy is simply to conduct those landlord activity tasks and functions which will provide a safely operating and adequately maintained facility which can support waste-related Site programs and projects consistent with the Site mission.

Assumptions:

1. Training Implementation Matrix and supporting Training Implementation Plan for 207 cluster is not considered an Authorization Basis document. As such, a majority of training requirements formulated by compliance with DOE 5480.2A are funded by separate project WPD. The Landlord baseline only funds training for Building Management.
2. RCRA and Environmental compliance activities funded separately from project WPD.
3. Radiological surveys, RCT supervisors, and RCT training supporting storage of waste arrays are funded separately from project WPD. The Landlord baseline only funds radiological control activities necessary to provide instrumentation for emergency response.
4. Nuclear Material Accountability and Control activities are funded separately from project WPD.
5. Calibration of scales in the facility will be funded separately from project WPD.
6. The Landlord baseline will provide funding for the emergency preparedness infrastructure and performance of quarterly drill/training exercises.
7. Maintenance of power distribution system support of mobile assay units is funded separately by project WPD.
8. Maintenance of the overhead crane which supports waste shipments to the Waste Isolation Pilot Plant is funded separately by project WPD.
9. A complete re-write and accident analysis of the 664 Final Safety Analysis Report will not occur during FY 98 or FY 99. The Landlord baseline will fund only completion of annual update and revision issue process.
10. An Operational Readiness Evaluation of the 207 facility will not be pursued.
11. Any needed cargo replacements or repairs are funded separately by project WPD.
12. No General Plant Projects or installation of Capital Equipment Items will be pursued within the 664 Landlord baseline during FY 98 or FY 99.
13. No Engineering Support services for updating facility drawings will be necessary during FY 98 and FY 99.
14. No structural facility inspection services will be necessary during FY 98 and FY 99.
15. Baseline activities will not uncover any tangible cost reduction proposals.
16. Hourly attendance of Pre-evolution briefs is funded separately by project WPD; all Pre/post - evolution briefs are project specific.
17. Information Resource Management Support services funded separately by project WPD.
18. Interviews, recruitment, and relocation costs shall be funded separately by project WPD.
19. NOT services are not applicable to Landlord baseline activity.
20. Nuclear Engineering services applicable to the Landlord baseline only include support of the annual update of the FSAR/Authorization Basis and processing of USQDs.
21. No new office furniture or equipment will be procured by the baseline, excesses shall be re-utilized.
22. Physical and medical examinations will be separately funded by project WPD.
23. A need for Project Control services will be encountered during FY 98 and FY 99.
24. Respiratory protection will be separately funded by project WPD.